

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/632,793A

Source: IFW/b

Date Processed by STIC: 10/26/06

ENTERED



IFW16

RAW SEQUENCE LISTING DATE: 10/26/2006
PATENT APPLICATION: US/10/632,793A **TIME:** 10:36:18

Input Set : A:\11004801.txt
Output Set: N:\CRF4\10262006\J632793A.raw

3 <110> APPLICANT: PARANHOS-BACCALA, Glaucia
 4 Mallet, Francois
 5 VOISSET, Cecile
 7 <120> TITLE OF INVENTION: ENDOGENEOUS NUCLEIC ACID FRAGMENT ASSOCIATED WITH AN
 AUTOIMMUNE
 8 DISEASE, LABELING METHOD AND REAGENT
 10 <130> FILE REFERENCE: 110048.01
 12 <140> CURRENT APPLICATION NUMBER: 10/632,793A
 13 <141> CURRENT FILING DATE: 2003-08-04
 15 <150> PRIOR APPLICATION NUMBER: PCT/FR00/00144
 16 <151> PRIOR FILING DATE: 2000-01-21
 18 <150> PRIOR APPLICATION NUMBER: US 09/869,927
 19 <151> PRIOR FILING DATE: 2001-08-17
 21 <150> PRIOR APPLICATION NUMBER: FR 99/00888
 22 <151> PRIOR FILING DATE: 1999-01-21
 24 <160> NUMBER OF SEQ ID NOS: 36
 26 <170> SOFTWARE: PatentIn version 3.3
 28 <210> SEQ ID NO: 1
 29 <211> LENGTH: 1511
 30 <212> TYPE: DNA
 31 <213> ORGANISM: Homo sapiens
 33 <400> SEQUENCE: 1
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 36 atttatattc ttctgcagta ccgcctggcc acaatatcct cttcaaggga gagaaacctg 120
 38 gcttcctgag ggaagtataa attataacat catcttacag cttagacctt tctgtagaaa 180
 40 ggagggcaaa tggagtgaag tgccatatgt gcaaacttcc ttttcattaa gagacaactc 240
 42 acaattatgt aaaaagtgtg gtttatgcc tacagaagc cctcagatc cacccctta 300
 44 ccccgacgtc ccctccccga ctcccccctc aactaataag gacccccc ttacccaaac 360
 46 ggtccaaaag gagatagaca aaggggtaaa caatgaacca aagagtgc aatattcccg 420
 48 attatgcccc ctccaagcag tgagaggagg agaattcggc ccagccagag tgcctgtacc 480
 50 ttttctctc tcagacttaa agcaaattaa aatagaccta gtaaattct cagataaccc 540
 52 tgacggctat attgatgtt tacaagggtt aggacaatcc tttgatctga catggagaga 600
 54 tataatgtt aactaaatc agacactaac cccaaatgag agaagtgc ctgtactgc 660
 56 agcccgagag tttggcgtatc ttggatct cagtcaggcc aacaatagaa tgacaacaga 720
 58 ggaaagaaca actccccacag gccagcaggc agttcccagt gtagaccctc attggacac 780
 60 agaatcagaa catggagatt ggtgccacaa acatttgcta acttgcgtgc tagaaggact 840
 62 gagaaaaact aggaagaagc ctatgaatta ctcaatgtatg tccactataa cacagggaaa 900
 64 ggaagaaaat ctactgctt ttctggacag actaaggag gcattgagga agcatacctc 960
 66 cctgtcacct gactctattg aaggccaact aatctaaag gataagttt tcactcagtc 1020
 68 agctgcagac attaaaaaa acttcaaaag tctgccttag gcccggagca gaacttagaa 1080
 70 accctattta acttggcatc ctcagtttt tataatagag atcaggagga gcaggcggaa 1140
 72 cgggacaaac gggataaaaaaaa aaaaagggggg ggtccactac tttagtcatg gccctcaggc 1200
 74 aagcagactt tggaggctct gcaaaaggaa aaagctggc aatcaaatg cctaataagg 1260
 76 ctggcttcca gtgcggctca caaggacact ttaaaaaaga ttatccaagt agaaataagc 1320

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78	cgc	cccccttg	tccatgcccc	ttacgtcaag	ggaatcactg	gaaggcccac	tgcccaggg	1380	
80	gat	gaagata	ctctgagtca	gaagccatta	accagatgat	ccagcagcag	gactgaggg	1440	
82	gcc	cgggcg	agcgccagcc	catgccatca	ccctcacaga	gccccgggt	tgtttgcacca	1500	
84	ttg	agagcca	a					1511	
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88	<211>	LENGTH:	2009						
89	<212>	TYPE:	DNA						
90	<213>	ORGANISM:	Homo sapiens						
93	<220>	FEATURE:							
94	<221>	NAME/KEY:	misc_feature						
95	<222>	LOCATION:	(1940)..(1940)						
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101	gatggat	atc	tc	cg	ctgtgc	ctgatcc	aggcgcc	120	
103	ttgctg	ctcc	caattgg	cttgc	cattttccc	acacggctaa	gtggccgg	180	
105	tcat	ccta	at	tgagct	actagtca	gggttccat	gttctctcc	atgacc	240
107	gctt	cata	ta	gagct	cttaat	actcaccaca	tggccaa	ttccat	300
109	gagg	cca	aga	acc	ccagg	tc	aggctt	ggca	360
111	cgg	ccat	ttg	ggag	ct	gac	ccc	agg	420
113	gac	ctcc	aaa	g	cgat	ggaa	acatt	cccc	480
115	ggaga	atttg	g	acc	atgt	actc	agac	gtaa	540
117	cag	tacc	g	ttg	ccaca	at	ctt	ttc	600
119	tataa	attat	a	acat	cat	ta	cag	ctgt	660
121	tga	agt	gcca	ta	tat	gt	gt	ccat	720
123	gtgt	gggtt	ta	tgcc	cata	ca	gag	cc	780
125	cccg	actc	c	tc	c	ta	agg	cc	840
127	agaca	aa	agg	gt	aa	cc	at	cc	900
129	agc	agt	gaga	gg	gg	cc	ca	cc	960
131	ctt	aa	agca	at	aa	at	at	tt	1020
133	tgtt	tt	tacaa	gg	tt	gg	at	tt	1080
135	aaat	cag	aca	ct	aa	cc	at	cc	1140
137	cgt	at	ctt	tg	ct	ca	ac	cc	1200
139	cac	agg	cc	c	agg	gt	cc	cc	1260
141	agat	ttg	gtc	caca	ac	tt	tg	cc	1320
143	gaag	cct	at	tg	at	cc	ac	cc	1380
145	tg	ctt	tct	g	ac	at	tt	ct	1440
147	tat	tg	aa	gg	tt	at	tc	at	1500
149	aaaaa	actt	ca	aa	gt	tt	cc	cc	1560
151	gca	tcc	ta	ttt	tt	ta	aa	cc	1620
153	aaaaaa	aaaaaa	gggggg	gt	cc	ttt	ttt	ttt	1680
155	gct	ctgg	aaa	agg	aa	gg	ttt	ttt	1740
157	gtc	taca	aaa	ttt	ttt	ttt	ttt	ttt	1800
159	gccc	ttac	ta	agg	ttt	ttt	ttt	ttt	1860
161	agt	caga	acc	at	ttt	ttt	ttt	ttt	1920
W--> 163	cag	ccat	gc	cat	cccc	ttt	ttt	ttt	1980
165	tta	act	gt	c	c	ttt	ttt	ttt	2009
168	<210>	SEQ ID NO:	3						
169	<211>	LENGTH:	1056						

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 171 <213> ORGANISM: Homo sapiens
 173 <400> SEQUENCE: 3
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 176 tttatattct tctgcgtac cgcctggcca caatatcctc ttcaaggag agaaacctgg 120
 178 ctcctgagg gaagtataaa ttataacatc atcttacagc tagaccttctt ctgttagaaag 180
 180 gagggcaaat ggagtgaagt gccatatgtg caaactttctt tttcattaag agacaactca 240
 182 caattatgtt aaaaatgtgg tttatgcctt acagaagcc ctcagagtcc acctccctac 300
 184 cccagcgtcc cctcccccgcac ttcttcctca actaataagg accccccctt aacccaaacg 360
 186 gtccaaaagg agatagacaa aggggttaaac aatgaaccaa agagtgcacaa tattccccga 420
 188 ttatgcccccc tccaaagcagt gagaggagga gaattcgcc cagccagagt gcctgtacct 480
 190 ttttctctct cagacttaaa gcaaattaaa atagacctag gtaaatttctc agataaccct 540
 192 gacggctata ttgatgttt acaagggtt aacgggatggacatcttgcacatggagagat 600
 194 ataatgttac tactaatca gacactaacc ccaaatgaga gaagtgcgc tgtaactgca 660
 196 gcccggaggt ttggcgatct ttggtatctc agtcaaggcca acaatagat gacaacagag 720
 198 gaaagaacaa ctcccacagg ccagcaggca gttcccagtg tagaccctca ttgggacaca 780
 200 gaatcagaac atggagattt gttccacaaa catttgctaa cttgcgtgct agaaggactg 840
 202 agaaaaacta ggaagaagcc tatgaattac tcaatgtatgtt ccactataac acagggaaag 900
 204 gaagaaaatc ttactgcttt tctggacaga ctaaggagg cattgaggaa gcatacctcc 960
 206 ctgtcacctt actctattga aggccaaacta atcttaaagg ataagtttat cactcagtca 1020
 208 gctgcagaca ttagaaaaaa cttcaaaaat ctgcct 1056
 211 <210> SEQ ID NO: 4
 212 <211> LENGTH: 25
 213 <212> TYPE: DNA
 214 <213> ORGANISM: Homo sapiens
 216 <400> SEQUENCE: 4
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 220 <210> SEQ ID NO: 5
 221 <211> LENGTH: 26
 222 <212> TYPE: DNA
 223 <213> ORGANISM: Homo sapiens
 225 <400> SEQUENCE: 5
 226 ggacaggaaa gtaagactga gaaggc 26
 229 <210> SEQ ID NO: 6
 230 <211> LENGTH: 26
 231 <212> TYPE: DNA
 232 <213> ORGANISM: Homo sapiens
 234 <400> SEQUENCE: 6
 235 ccttagaacgtt attctggaga attggg 26
 238 <210> SEQ ID NO: 7
 239 <211> LENGTH: 26
 240 <212> TYPE: DNA
 241 <213> ORGANISM: Homo sapiens
 243 <400> SEQUENCE: 7
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 247 <210> SEQ ID NO: 8
 248 <211> LENGTH: 21
 249 <212> TYPE: DNA
 250 <213> ORGANISM: Homo sapiens

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253 atgggaaacg ttccccccga g 21
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265 <210> SEQ ID NO: 10
266 <211> LENGTH: 409
267 <212> TYPE: PRT
268 <213> ORGANISM: Homo sapiens
270 <400> SEQUENCE: 10
272 Met Gly Ser Ser His His His His His His Ser Ser Gly Leu Val Pro
273 1 5 10 15
276 Arg Gly Ser His Met Ala Ser Met Thr Gly Gly Gln Gln Met Gly Arg
277 20 25 30
280 Ile Met Gly Asn Ile Pro Pro Lys Ala Lys Thr Pro Leu Arg Cys Ile
281 35 40 45
284 Leu Glu Asn Trp Asp Gln Cys Asp Thr Gln Thr Leu Arg Lys Lys Arg
285 50 55 60
288 Phe Ile Phe Phe Cys Ser Thr Ala Trp Pro Gln Tyr Pro Leu Gln Gly
289 65 70 75 80
292 Arg Glu Thr Trp Leu Pro Glu Gly Ser Ile Asn Tyr Asn Ile Ile Leu
293 85 90 95
296 Gln Leu Asp Leu Phe Cys Arg Lys Glu Gly Lys Trp Ser Glu Val Pro
297 100 105 110
300 Tyr Val Gln Thr Phe Phe Ser Leu Arg Asp Asn Ser Gln Leu Cys Lys
301 115 120 125
304 Lys Cys Gly Leu Cys Pro Thr Gly Ser Pro Gln Ser Pro Pro Pro Tyr
305 130 135 140
308 Pro Ser Val Pro Pro Pro Thr Pro Ser Ser Thr Asn Lys Asp Pro Pro
309 145 150 155 160
312 Leu Thr Gln Thr Val Gln Lys Glu Ile Asp Lys Gly Val Asn Asn Glu
313 165 170 175
316 Pro Lys Ser Ala Asn Ile Pro Arg Leu Cys Pro Leu Gln Ala Val Arg
317 180 185 190
320 Gly Gly Glu Phe Gly Pro Ala Arg Val Pro Val Pro Phe Ser Leu Ser
321 195 200 205
324 Asp Leu Lys Gln Ile Lys Ile Asp Leu Gly Lys Phe Ser Asp Asn Pro
325 210 215 220
328 Asp Gly Tyr Ile Asp Val Leu Gln Gly Leu Gly Gln Ser Phe Asp Leu
329 225 230 235 240
332 Thr Trp Arg Asp Ile Met Leu Leu Leu Asn Gln Thr Leu Thr Pro Asn
333 245 250 255
336 Glu Arg Ser Ala Ala Val Thr Ala Ala Arg Glu Phe Gly Asp Leu Trp
337 260 265 270
340 Tyr Leu Ser Gln Val Asn Asn Arg Met Thr Thr Glu Glu Arg Thr Thr
341 275 280 285

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Input Set : A:\11004801.txt
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344 Pro Thr Gly Gln Gln Ala Val Pro Ser Val Asp Pro His Trp Asp Thr
345 290 295 300
348 Glu Ser Glu His Gly Asp Trp Cys His Lys His Leu Leu Thr Cys Val
349 305 310 315 320
352 Leu Glu Gly Leu Arg Lys Thr Arg Lys Lys Pro Met Asn Tyr Ser Met
353 325 330 335
356 Met Ser Thr Ile Thr Gln Gly Lys Glu Glu Asn Pro Thr Ala Phe Leu
357 340 345 350
360 Asp Arg Leu Arg Glu Ala Leu Arg Lys His Thr Ser Leu Ser Pro Asp
361 355 360 365
364 Ser Ile Glu Gly Gln Leu Ile Leu Lys Asp Lys Phe Ile Thr Gln Ser
365 370 375 380
368 Ala Ala Asp Ile Arg Lys Asn Phe Lys Ser Leu Pro Lys Leu Ala Ala
369 385 390 395 400
372 Ala Leu Glu His His His His His
373 405
376 <210> SEQ ID NO: 11
377 <211> LENGTH: 393
378 <212> TYPE: PRT
379 <213> ORGANISM: Homo sapiens
381 <400> SEQUENCE: 11
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387 Ile Pro Pro Lys Ala Lys Thr Pro Leu Arg Cys Ile Leu Glu Arg Ile
388 20 25 30
391 Leu Glu Asn Trp Asp Gln Cys Asp Thr Gln Thr Leu Arg Lys Lys Arg
392 35 40 45
395 Phe Ile Phe Phe Cys Ser Thr Ala Trp Pro Gln Tyr Pro Leu Gln Gly
396 50 55 60
399 Arg Glu Thr Trp Leu Pro Glu Gly Ser Ile Asn Tyr Asn Ile Ile Leu
400 65 70 75 80
403 Gln Leu Asp Leu Phe Cys Arg Lys Glu Gly Lys Trp Ser Glu Val Pro
404 85 90 95
407 Tyr Val Gln Thr Phe Phe Ser Leu Arg Asp Asn Ser Gln Leu Cys Lys
408 100 105 110
411 Lys Cys Gly Leu Cys Pro Thr Gly Ser Pro Gln Ser Pro Pro Pro Tyr
412 115 120 125
415 Pro Ser Val Pro Ser Pro Thr Pro Ser Ser Thr Asn Lys Asp Pro Pro
416 130 135 140
419 Leu Thr Gln Thr Val Gln Lys Glu Ile Asp Lys Gly Val Asn Asn Glu
420 145 150 155 160
423 Pro Lys Ser Ala Asn Ile Pro Arg Leu Cys Pro Leu Gln Ala Val Arg
424 165 170 175
427 Gly Gly Glu Phe Gly Pro Ala Arg Val Pro Val Pro Phe Ser Leu Ser
428 180 185 190
431 Asp Leu Lys Gln Ile Lys Ile Asp Leu Gly Lys Phe Ser Asp Asn Pro
432 195 200 205
435 Asp Gly Tyr Ile Asp Val Leu Gln Gly Leu Gly Gln Ser Phe Asp Leu
436 210 215 220

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FYI
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; N Pos. 1940
Seq#:18; N Pos. 594
Seq#:22; N Pos. 879,1200
Seq#:23; N Pos. 305
Seq#:24; N Pos. 84,193,241
Seq#:27; N Pos. 119
Seq#:29; N Pos. 1191,1213,2089,2274
Seq#:30; N Pos. 198,307,355,1309,1331,2213,2398,3787,4115,4261

VERIFICATION SUMMARY

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L:163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:1920
L:567 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:540
L:804 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:840
M:341 Repeated in SeqNo=22
L:847 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:300
L:930 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:60
M:341 Repeated in SeqNo=24
L:1155 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:60
L:1364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:1140
M:341 Repeated in SeqNo=29
L:1470 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:180
M:341 Repeated in SeqNo=30